

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 1

Analyzing the Incident—Hazard Identification

STANDARD 5.1.2.1 & 5.2.3
NFPA 472, 2002 edition

TASK: Given an incident involving a single hazardous material, the first responder at the operational level shall identify containers and materials involved, determine if a release has occurred and identify and list surrounding conditions. The first responder shall predict the likely behavior of the material and its container.

PERFORMANCE OUTCOME: The candidate will interpret the hazard and response for a known hazardous material and its container.

CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, material safety data sheets (MSDS), CHEMTREC/CANUTEC/SETIQ, and shipper/manufacturer contracts. The candidate will answer the following questions/tasks asked by the evaluator.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the name(s) of hazardous chemicals and containers involved (from a safe distance upwind)				
2.	Locate chemicals in response resources provided				
3.	Determine if structural firefighting equipment and SCBA provide appropriate protection for hazardous material involved				
4.	Determine potential hazards of materials involved (isolate, deny access)				
5.	Identify and list surrounding conditions that should be noted.				
6.	Predict likely behavior of hazardous material and its container				
7.	Determine associated risks and estimate potential harm				
8.	List response objectives and described defensive options available based on information gathered.				

Evaluator/Candidate Comments:

Risks and Hazards: thermal, mechanical, or chemical stress, type of breach, release, dispersion pattern, length of contact, health and physical hazards, short term, medium term, long term, etc

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 2

Identify Shipping Containers

STANDARD: 5.2.1.1 NFPA 472, 2002 edition	TASK: Given product names, product numbers and a variety of containers, the first responder will match the product with the type of container it is typically shipped in.				
PERFORMANCE OUTCOME: The candidate will correctly match the products with its proper container.					
CONDITIONS: Given 3 chemical products, an emergency response guidebook, and pictures of a variety of containers.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will properly match the 3 products with appropriate containers:				
1.	Liquids				
	a. Gasoline, UN 1203				
	b. Phosphoric acid, UN 1805				
	c. Liquid oxygen, UN 1073				
2.	Gases				
	a. Propane, UN 1075				
	b. Helium, UN 1046				
	c. Argon, UN 1006				
3.	Solids				
	a. Ammonium Nitrate, UN 2069				
	b. Blasting caps, UN 0029				
	c. Phosphorus, UN 1338				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 3

Identify Intermodal Containers

STANDARD 5.2.1.1 NFPA 472, 2002 edition		TASK: Given examples of the following intermodal containers, shall identify each container by type: A. Non-pressure intermodal, B. Pressurized intermodal			
PERFORMANCE OUTCOME: The candidate will correctly identify non-pressure and pressurized intermodal containers.					
CONDITIONS: Given diagrams or pictures of different types of intermodal containers					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Non-pressure intermodal containers				
	a. IM-101 (IMO Type 1 internationally) portable tank				
	b. IM-102 (IMO Type 2 internationally) portable tank				
2.	Pressurized intermodal containers				
3.	Specialized intermodal tanks				
	a. Cryogenic intermodal tanks				
	b. Tube modules				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 4

Identify Tank Cars

STANDARD: 5.2.1.1 NFPA 472, 2002 edition		TASK: Given diagrams or pictures of different types of tank cars, the first responder will identify the various types of tank cars.			
PERFORMANCE OUTCOME: The candidate will identify the various types of tank cars: 1) Non-pressure tank car with expansion dome, 2) Non-pressure tank car without expansion dome, 3) Pressure tank car, 4) Cryogenic liquid tank car, 5) High pressure tube cars, 6) Pneumatically unloaded hopper car.					
CONDITIONS: Given diagrams or pictures of at least one of each type of tank car.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Non-pressure tank cars with expansion domes				
2.	Non-pressure tank cars without expansion domes				
3.	Pressure tank cars				
4.	Cryogenic liquid tank cars				
5.	High pressure tube cars				
6.	Pneumatically unloaded hopper car.				

Evaluator/Candidate Comments:

I acknowledge not passing this skill station.

Evaluator Signature

Candidate Signature

Re-Test Evaluator Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 5

Identify Facility Tanks

STANDARD: 5.2.1.1 NFPA 472, 2002 edition		TASK: Given diagrams or pictures of facility tanks, the first responder shall identify the following facility tanks: 1) Non-pressure facility tank, 2) Pressure facility Tank, 3) Cryogenic facility tank. The candidate shall identify the markings that differentiate these tanks from transportation tanks.			
PERFORMANCE OUTCOME: The candidate will correctly identify all facility tanks presented					
CONDITIONS: Given at least one picture or diagram of each of these types of facility tanks: 1) Non-pressure, 2) Pressure, 3) cryogenic					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Non-pressure facility tanks				
2..	Pressure facility tanks				
3.	Cryogenic facility tanks				
4.	Identify the markings that differentiate facility tanks from transportation tanks.				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 6

Identify Non-Bulk Packages

STANDARD: 5.2.1.1 NFPA 472, 2002 edition		TASK: Given diagrams or pictures of non-bulk packages, the first responder shall identify the following: 1) Bags, 2) Carboys, 3) Cylinders, 4) Drums			
PERFORMANCE OUTCOME: The candidate will correctly identify all non-bulk packages presented					
CONDITIONS: Given at least one picture or diagram of each of these types of non-bulk packages: 1) Bags, 2) Carboys, 3) Cylinders, 4) Drums					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Bags				
2.	Carboys				
3.	Cylinders				
4.	Drums				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 7

Identify Radioactive Material Containers

STANDARD: 5.2.1.1 NFPA 472, 2002 edition		TASK: Given pictures or diagrams of radioactive material containers, the first responder shall identify the following: 1) Type A, 2) Type B, 3) Industrial, 4) Excepted, 5) Strong, tight containers			
PERFORMANCE OUTCOME: The candidate will correctly identify all radioactive material containers presented.					
CONDITIONS: Given at least one picture or diagram of each of these types of radioactive material containers: 1) Type A, 2) Type B, 3) Industrial, 4) Excepted, 5) Strong, tight container					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Type A radioactive material containers				
2.	Type B radioactive material containers				
3.	Industrial radioactive material containers				
4.	Excepted radioactive material containers				
5.	Strong, tight radioactive material containers				

Evaluator/Candidate Comments:

I acknowledge not passing this skill station.

Evaluator Signature

Candidate Signature

Re-Test Evaluator Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 8

Identify Pesticide Label Information

STANDARD: 5.2.1.3 NFPA 472, 2002 edition		TASK: Given a pesticide label, the first responder shall identify and give the significance of: 1) the name of the pesticide, 2) the signal word, 3) the EPA registration number (in the U.S.), 4) precautionary statement, 5) the hazard statement, 6) the active ingredient.			
PERFORMANCE OUTCOME: The candidate shall identify the pieces of information on a pesticide label and match these to its significance in surveying the hazardous materials incident.					
CONDITIONS: Given a pesticide label or copy of a pesticide label and a list of things to identify.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	The name of the pesticide				
2.	The name of the signal word				
3.	The EPA registration number				
4.	The name of the precautionary statement				
5.	The name of the hazard statement				
6.	The name of the active ingredient				
7.	Relay significance of the information gathered to evaluator				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 9

Identify MSDS Information

STANDARD: 5.2.2 NFPA 472, 2002 edition	TASK: Given a material safety data sheet, the first responder shall identify the following: 1) physical and chemical characteristics, 2) physical hazards of the material, 3) health hazards of the material, 4) signs and symptoms of the material, 5) routes of entry, 6) permissible exposure limits, 7) responsible party contact, 8) applicable control measures, 9) emergency first aid procedures, and 10) verbally identify 2 ways to obtain a MSDS in an emergency.				
PERFORMANCE OUTCOME: The candidate will correctly give the following material from a material safety data sheet: 1) physical and chemical characteristics, 2) physical hazards of the material, 3) health hazards of the material, 4) signs and symptoms of the material, 5) routes of entry, 6) permissible exposure limits, 7) responsible party contact, 8) applicable control measures, 9) emergency first aid procedures, and 10) verbally identify 2 ways to obtain a MSDS in an emergency.					
CONDITIONS: Given a material safety data sheet and a list of material to identify.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Physical and chemical characteristics				
2.	Physical hazards of the chemical				
3.	Health hazards of the chemical				
4.	Routes of entry to the body				
5.	Permissible exposure limits of the chemical				
6.	The responsible party contact				
7.	Precautions for safe handling				
8.	Applicable control measures				
9.	The emergency first aid procedures for the chemical				
10.	Two (2) ways to obtain a MSDS in an emergency				

Evaluator/Candidate Comments:

Evaluator Signature

Re-Test Evaluator Signature

I acknowledge not passing this skill station.

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 10

Analyzing the Incident--Estimate Exposures

STANDARD: 5.2.4 A NFPA 472, 2002 edition		TASK: Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials incident or radioactive materials incident, estimate the number and type of exposures within that endangered area.			
PERFORMANCE OUTCOME: The candidate will estimate the number and type of exposures.					
CONDITIONS: Given a chemical name, an emergency response guidebook, and a local map.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine and record the types of exposures				
2.	Estimate the number of exposures				
3.	Determine protective action and evacuation distances				
4.	Describe prioritization of exposures				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 11

Analyzing the Incident--Victim Removal

STANDARD: 5.2.4 B NFPA 472, 2002 edition	TASK: Given the dimensions of the endangered area, the exposures and the surrounding conditions at a hazardous materials incident identify potential harm and outcome and describe emergency medical care and removal of victim(s). The candidate will work in PPE.				
PERFORMANCE OUTCOME: The candidate working in PPE will identify potential harm and estimate potential outcome within endangered area. The candidate will demonstrate prioritization of emergency medical care and removal of victim(s).					
CONDITIONS: Given a chemical name requiring PPE, an emergency response guidebook, conscious/non-ambulatory patient(s), and dimensions of endangered area.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the need for imminent peril rescue				
2.	Determine if specialized protective equipment needed for the incident				
3.	Properly don appropriate PPE required by incident				
4.	Approach and access victim to minimize exposure and avoid contact with material				
5.	Remove victim(s) to refuge inside exclusion zone using approved rescue and drags or carries				
6.	Provide verbal report to EMS personnel				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 12

Analyzing the Incident--Determine Evacuation Area

STANDARD: 5.2.4 C NFPA 472, 2002 edition		TASK: Given the appropriate material and conditions, the first responder shall determine the evacuation area for the hazardous material condition presented.			
PERFORMANCE OUTCOME: The candidate shall determine the appropriate evacuation area on the area map provided.					
CONDITIONS: Given a scenario involving known hazardous materials in a container with UN number, the current edition of the North American Emergency Response Guidebook, a vicinity area map and the weather conditions.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Locate the materials in the response resources provided (ERG)				
2.	Determine potential hazards of materials involved.				
3.	Based on the scenario, determine the appropriate evacuation area on the map.				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 13

Implementing the Planned Response--Emergency Decon--Firefighter

STANDARD: 5.4.1 A NFPA 472, 2002 edition		TASK: Emergency Decontamination/Firefighter. Demonstrate the ability to perform emergency decontamination while working in PPE. The first responder at the operational level shall identify how to establish and enforce scene control, including control zones, emergency decontamination, and communications.			
PERFORMANCE OUTCOME: The candidate at the operational level working in PPE shall be able to demonstrate the ability to perform emergency decontamination.					
CONDITIONS: Wearing SCBA/FULL PPE and given fire line tape, and given scenarios for facility and/or transportation hazardous materials incidents.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Remove firefighter victim from contaminated area				
2.	Ensure victim is supplied with uncontaminated air or oxygen ensuring air supply is maintained				
3.	Identify correct decontamination procedure				
4.	Remove helmet (if worn) and wash victim with flooding quantities of water (water is used only if decontamination procedure calls for it)				
5.	If victim is wearing an SCBA, release the harness and remove SCBA leaving face piece in place				
6.	Remove contaminated clothing and PPE while being flushed ensuring no further contamination while continuing to wash				
7.	Remove victim to treatment area in support zone				
8.	Provide verbal report to EMS personnel				
9.	Self decontamination of rescuer				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 14

Implementing the Planned Response--Emergency Decon--Site Worker

STANDARD: 5.4.1 B NFPA 472, 2002 edition		TASK: Emergency Decontamination/Contaminated Site worker. Demonstrate the ability to perform emergency decontamination. The first responder at the operational level while working in PPE shall identify how to establish and enforce scene control, including control zones, emergency decontamination, and communications.			
PERFORMANCE OUTCOME: The candidate at the operational level shall be able to demonstrate the ability to perform emergency decontamination while wearing full personal protective gear and SCBA.					
CONDITIONS: Given a simulated contaminated victim, a hose line, and a tarp if needed.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1	Remove victim from area of high contamination to area of refuge				
2.	Initiate flush/strip/flush emergency field decontamination procedure (after proper verification of the correct decontamination procedure to use)				
3.	Remove contaminated clothing while washing victim with hose stream				
4.	Identify need for emergency care of victim				
5.	Direct victim to treatment area to be evaluated by EMS personnel				
6.	Self decontamination of rescuer				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 15

Don and Doff SCBA

STANDARD: 5.4.3 A NFPA 472, 2002 edition	TASK: Demonstrate the ability to don, work in, and doff personal protective equipment provided by the authority having jurisdiction.				
PERFORMANCE OUTCOME: The candidate at the operational level shall be able to demonstrate the ability to don and doff self-contained breathing apparatus.					
CONDITIONS: Given SCBA and personal protective equipment.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Check air cylinder pressure, open cylinder valve, listen for operation of low air alarm, compare cylinder pressure with remote pressure gauge				
2.	Don SCBA, securing all straps in appropriate sequence				
3.	Don face piece, securing all straps in appropriate sequence, perform negative pressure check (seal) exhale to check exhalation valve operation				
4.	Attach regulator to face piece, or attach low pressure hose to regulator, initiate air flow, and perform positive pressure check (break face piece seal)				
5.	Activate and check PASS device				
6.	Hood and helmet in proper position, (no skin showing), then don gloves				
7.	Doff SCBA				
8.	Extend all straps and make ready for reuse.				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 16

Implementing the Planned Response--Foam Proportioner

STANDARD: 5.4.4 A & 5.4.4C NFPA 472, 2002 edition		TASK: Foam OPS using the type of firefighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction; demonstrate the effective application of the firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials.			
PERFORMANCE OUTCOME: The candidate at the operational level working in PPE shall demonstrate defensive control actions set out in the plan by assembling an appropriate foam proportioning device and attack line.					
CONDITIONS: Wearing SCBA/Full PPE and given a scenario, an attack line, a foam proportioning device, a selection of foam concentrate, and a water supply.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate foam concentrate and appropriate nozzle for the given fuel and conditions				
2.	Prepare the foam concentrate for the given fuel and conditions				
3.	Assemble the foam proportioning device with the foam concentrate				
4.	Adjust the foam proportioning device based on the selected foam concentrate				
5.	Assemble, position, and prepare the hose line for fire attack				
6.	Assemble, position, and prepare personnel for fire attack				
7.	Charge the hose line so that it produces a properly proportioned foam fire stream				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 17

Vapor Suppression Using Foam

STANDARD: 5.4.4 B
NFPA 472, 2002 edition

TASK: Foam OPS using the type of firefighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction; demonstrate the proper application of the firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials.

PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.

CONDITIONS: Wearing SCBA/Full PPE and given a live fire or simulated scenario and an assembled foam fire stream.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Prepare personnel, place attack line in position upwind, and check nozzle for proper production of foam solution				
2.	Coordinate the attack team's advancement toward the fire so that a smooth and safe approach is maintained. Choose one:				
	a) Apply a foam blanket over the fuel's surface by using the Roll-on Method				
	b) Apply a foam blanket over the fuel's surface by using the Bank-Down Method				
	c) Apply a foam blanket over the fuel's surface by using the Rain-Down Method				
3.	Prevent re-ignition by maintaining a foam blanket				
4.	Coordinate the attack team's retreat so that the hazard is faced until the entire team reaches a safe haven				
5.	Maintained the personal safety of all attack team members				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 18

Implementing the Planned Response

STANDARD: 5.4.4 D
NFPA 472, 2002 edition

TASK: Foam OPS using the type of firefighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction, demonstrate the proper application of the firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous material.

PERFORMANCE OUTCOME: The candidate at the operational level, shall demonstrate defensive control actions set out in the plan.

CONDITIONS: Wearing SCBA/Full PPE and given a live fire or simulated scenario and equipment for foam:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify percentage of foam concentrate to use, connect eductor to hose line				
2.	Place eductor in concentrate can				
3.	Select appropriate setting on eductor				
4.	Open nozzle, apply away from fire or spill until finished foam reaches nozzle				
5.	Apply finished foam, from front of fire/spill working foam blanket back onto fire/spill				

Evaluator/Candidate Comments:

I acknowledge not passing this skill station.

Evaluator Signature

Candidate Signature

Re-Test Evaluator Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 19

Damming/Diking/Diverting/Absorption

STANDARD: 5.4.4 E NFPA 472, 2002 edition	TASK: Demonstrate how to perform the following defensive control activities: Absorption, Damming, Diking, Dilution, Diversion, Retention.				
PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.					
CONDITIONS: Wearing SCBA/Full PPE and given the appropriate tools and equipment (i.e., shovels, plastic, etc.). Evaluator shall specify at least two defensive actions to be performed from the list below.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Damming/Diking/Diverting/Absorption: Choose A, B, C, or D below:				
A.	Construct a retention pond				
B.	Construct a "V" dike or circle dike				
C	Construct a diversion dam.				
D.	Apply absorbent pads or booms				
	For A, B, C, or D chosen above:				
2.	Select and correctly utilize proper retention equipment				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 20

Implementing the Planned Response--Vapor Dispersion/Suppression

STANDARD: 5.4.4 F NFPA 472, 2002 edition		TASK: Demonstrate how to perform the following defensive control activities: Vapor Dispersion, and Vapor Suppression.			
PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.					
CONDITIONS: Wearing SCBA/Full PPE and given the appropriate tools and equipment (i.e., shovels, plastic, etc.).					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	Vapor Dispersion Techniques/Dilution Methods				
1.	Use nozzle on fog setting to disperse simulated vapor				
2.	Use hose line to apply water to dilute simulated chemical				
3.	Demonstrate knowledge of vapor suppression by identifying the need for foam				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature

Idaho Emergency Services Training

Hazardous Material Operations

Skill Sheet: 21

Emergency Shut-Off Devices

STANDARD: 5.4.4 NFPA 472, 2002 edition		TASK: Given an example of the following cargo tanks, shall identify the cargo tank and the location and use of the mechanical, hydraulic, and air emergency remote shutoff devices: 1) MC-306/DOT-406, 2) MC-331			
PERFORMANCE OUTCOME: The candidate will identify the cargo tank and the location and use of the mechanical, hydraulic, and air emergency remote shutoff devices					
CONDITIONS: Given pictures or diagrams of MC-306/DOT-406 and MC-331 cargo tanks.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	MC-306/DOT-406 cargo tank.				
2.	MC-306/DOT-406 <ul style="list-style-type: none">Remote emergency valves are both (usually) mechanical.Remote emergency valves are located both at the front and rear of the tank.				
3.	MC-331 cargo tank.				
4.	MC-331 <ul style="list-style-type: none">Has two remote methods of closure.Both closures are required to operate by mechanical and thermal means.				
5.	MC-331 <ul style="list-style-type: none">Remote closures are located at the front of the tank and at the rear of the vehicle cargo tanks.				

Evaluator/Candidate Comments:

Evaluator Signature

I acknowledge not passing this skill station.

Re-Test Evaluator Signature

Candidate Signature